

**SUNWAY M XS INVERTER  
FOR RESIDENTIAL AND COMMERCIAL APPLICATIONS  
FEATURING INTEGRATED DATALOGGER AND WIRELESS  
CONNECTIVITY**

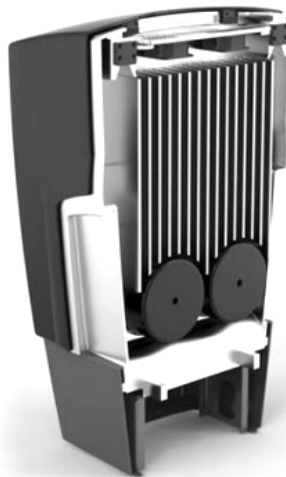
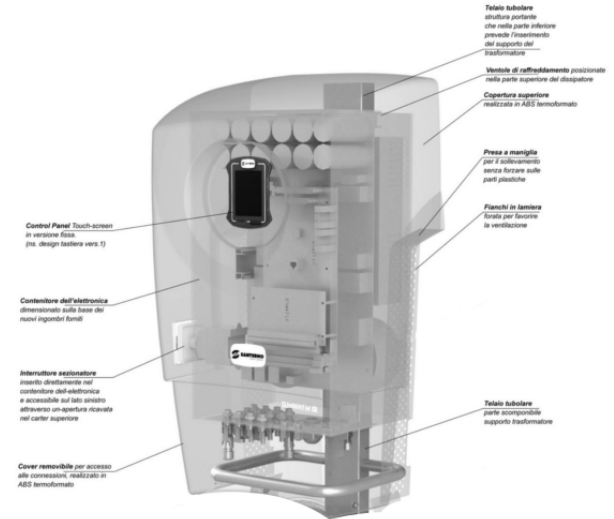
Simone Bernardi – Product Manager Solar Energy & Storage

# Sunway M XS - overview



## Mere Italian design:

- Innovation
- Technology
- Style



## Sunway M XS – The Range



- Sunway M XS 2200
- Sunway M XS 3000
- Sunway M XS 3800
- Sunway M XS 5000
- Sunway M XS 6000
- Sunway M XS 7500



Residential applications fitting building architecture or industrial rooftops.



# Sunway M XS – The Range



## SUNWAY M XS 3000TL – FEATURES

- Product Sizes: MXS 2200, 3000, 3800 TL
- Typ. PV ratings: 2640Wp, 3600Wp, 4500Wp
- MPPT Voltage: 125V – 480V
- Dimensions : 34 x 57 x 22 cm
- Weight: max 18Kg
- Application: residential environment



## SUNWAY M XS 7500TL – FEATURES

- Product Sizes: MXS 4600, 5000, 6000, 7500 TL
- Typ. PV ratings : 5500Wp, 6000Wp, 7000Wp, 9000Wp
- MPPT Voltage: 330V – 740V
- Dimensions: 41 x 70 x 26 cm
- Weight: max 35Kg
- Application: residential environment, 3/single-phase

<b>Colour</b>	Red, blue, white, black
<b>Independent MPPT</b>	1 or 2*
<b>DC Disconnect switch</b>	Optional
<b>RS485</b>	Optional
<b>Environmental sensors</b>	Optional

\* Only 1 MPPT available for size 2200W

<b>Colour</b>	Red, blue, white, black
<b>Independent MPPT</b>	1
<b>DC Disconnect switch</b>	Optional
<b>RS485</b>	Included
<b>Environmental sensors</b>	Optional

# Sunway M XS – Residential Application



Designed for domestic application

- Colour touchscreen display
- Wi-Fi Connectivity
- Integrated remote monitoring and diagnostic systems

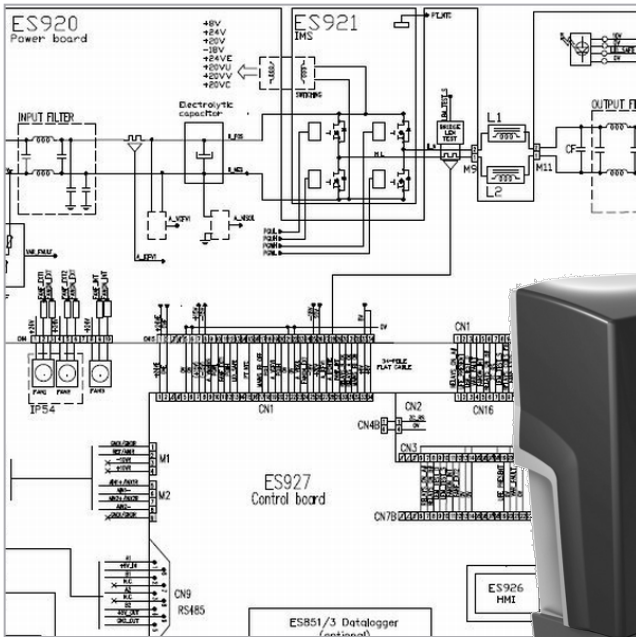


# Sunway M XS – Dual Technology



Dual technology includes:

- Power conversion system
- User interface, datalogger and Wi-Fi connectivity handling system



# Sunway M XS – Integrated Datalogger

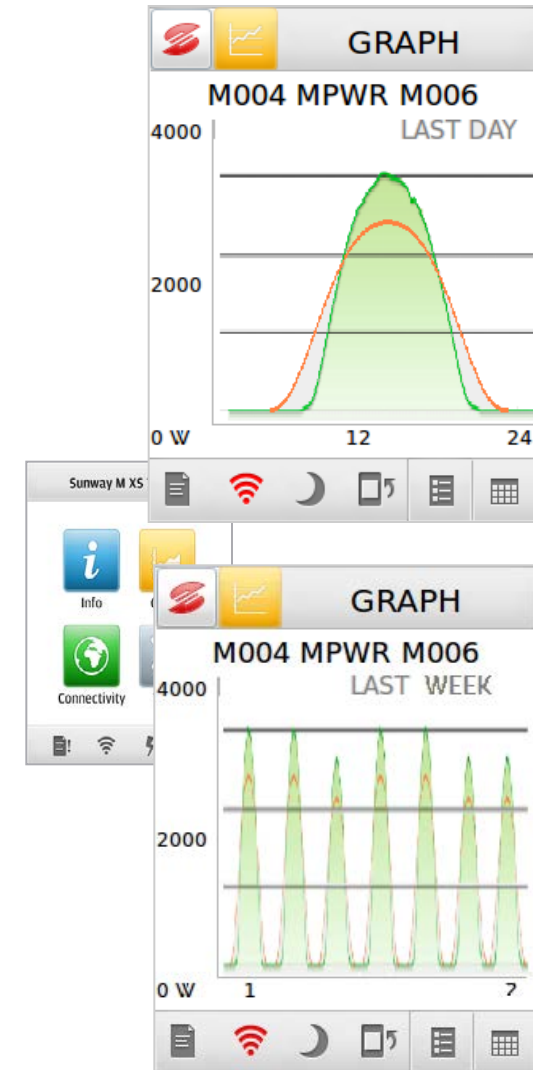


Up to three measures displayed at a time

Data expressed as a rolling graph

- 24h
- 1 week
- 1 month
- 1 year

Data available even when the inverter is on stand-by



# Sunway M XS – Data Accessibility



## Applet for Iphone





# Sunway M XS – Data Accessibility



Web server integrated into the inverter

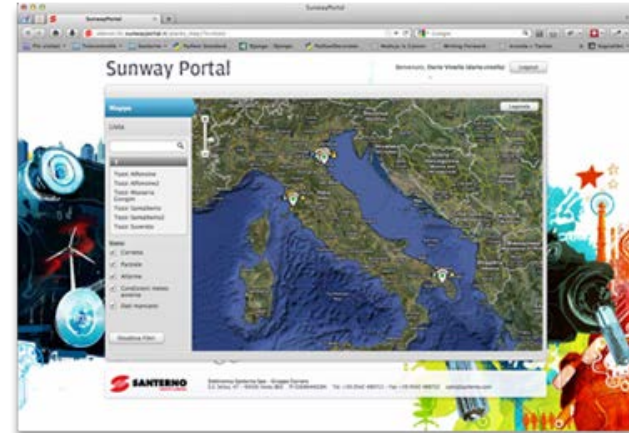


# Santerno SunwayPortal <sup>®</sup>



Santerno's SunwayPortal displays each PV plant as a marker on the map showing the real-time inverter operating conditions at a glance.

It also plots the main operating variables, such as the active power measures, the energy delivered and the environmental sensor measures.



The data sent from the inverter are constantly available from the website and may be downloaded in CSV format.

Enter an e-mail address or a phone number to receive failure notice.

have a free demo @ [www.sunwayportal.it](http://www.sunwayportal.it)

# Local monitoring via browser and iPhone

## Ad-hoc network



The Sunway MXS inverters are able to create an ad-hoc Wi-Fi network without using any additional devices.

The iPhone and the device featuring the web browser shall be part of the same ad-hoc network as well.

## Managed network



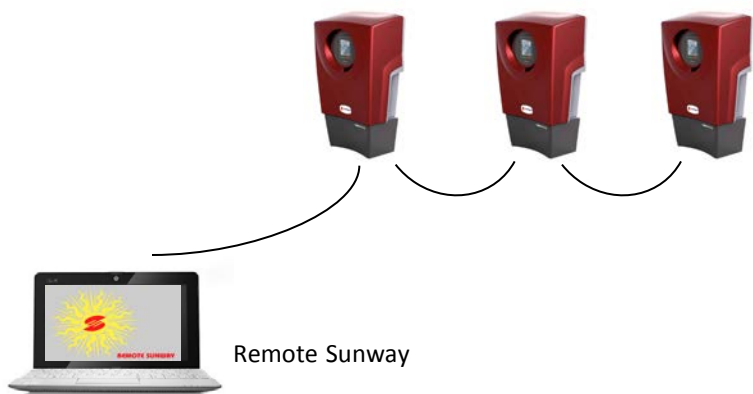
A Wi-Fi access point or router may be utilized to create a dedicated wi-fi network.

The iPhone and the device featuring the web browser shall be part of the same network.

## Local connection via Remote Sunway ®



### RS485



The laptop where the Remote Sunway is installed is to be connected to the inverters via RS485 through a multidrop network. The laptop and the last inverter in the network must be the line terminators. Each individual inverter must have a unique Modbus ID.

### Wi-Fi



The laptop where the Remote Sunway is installed is to be connected to the same Wi-Fi network as the inverters', either an ad-hoc or a managed network. A proprietary Modbus TCP/IP protocol is used.

# Remote monitoring via browser and iPhone



The inverters shall be Wi-Fi connected to a router allowing them to establish a connection to the Internet.

Every 15 minutes, the inverters will automatically send the operating data to the SunwayPortal.

Data may be displayed from the iPhone app or directly from the SunwayPortal using the browser.

# Santerno SunwayPortal<sup>®</sup> vs MXS



At the time of being tested, each Sunway M XS inverter is pre-configured for sending data to the SunwayPortal.

A wi-fi Internet connection is required when installing the inverter: the remote monitoring is a plug&play functionality. The username and password supplied with the inverter are required.

For a multi-inverter configuration, the plant synoptic table is required (special application form needed).



# Remote Assistance



**Santerno After Sales**



Press the Assistance icon from the touchscreen display to create a secure connection to the SunwayPortal.

This secure connection may be used only by authorized technical personnel for remote assistance.

When remote assistance is no longer required, communications will be easily suspended for maximum security and minimum traffic.

# Sunway M XS for industrial rooftops



Multi-inverter

- Wi-Fi Connectivity
- Power Control for phase equalization of up to 64 inverters





# MXS Integration with Sunway Bridge



The Sunway M XS inverters may be easily integrated into a data network: just connect them either via RS485 using a Modbus RTU protocol, or to a Wi-Fi connection using a Modbus TCP/IP protocol .

It is also possible to use the Santerno Sunway Bridge as an external datalogger for PV plants featuring multiple Sunway M XS inverters: each datalogger may acknowledge maximum 63 inverters.



# Sunway M XS – Worldwide



Worldwide application

Compliant with diverse Grid Codes and local technical requirements



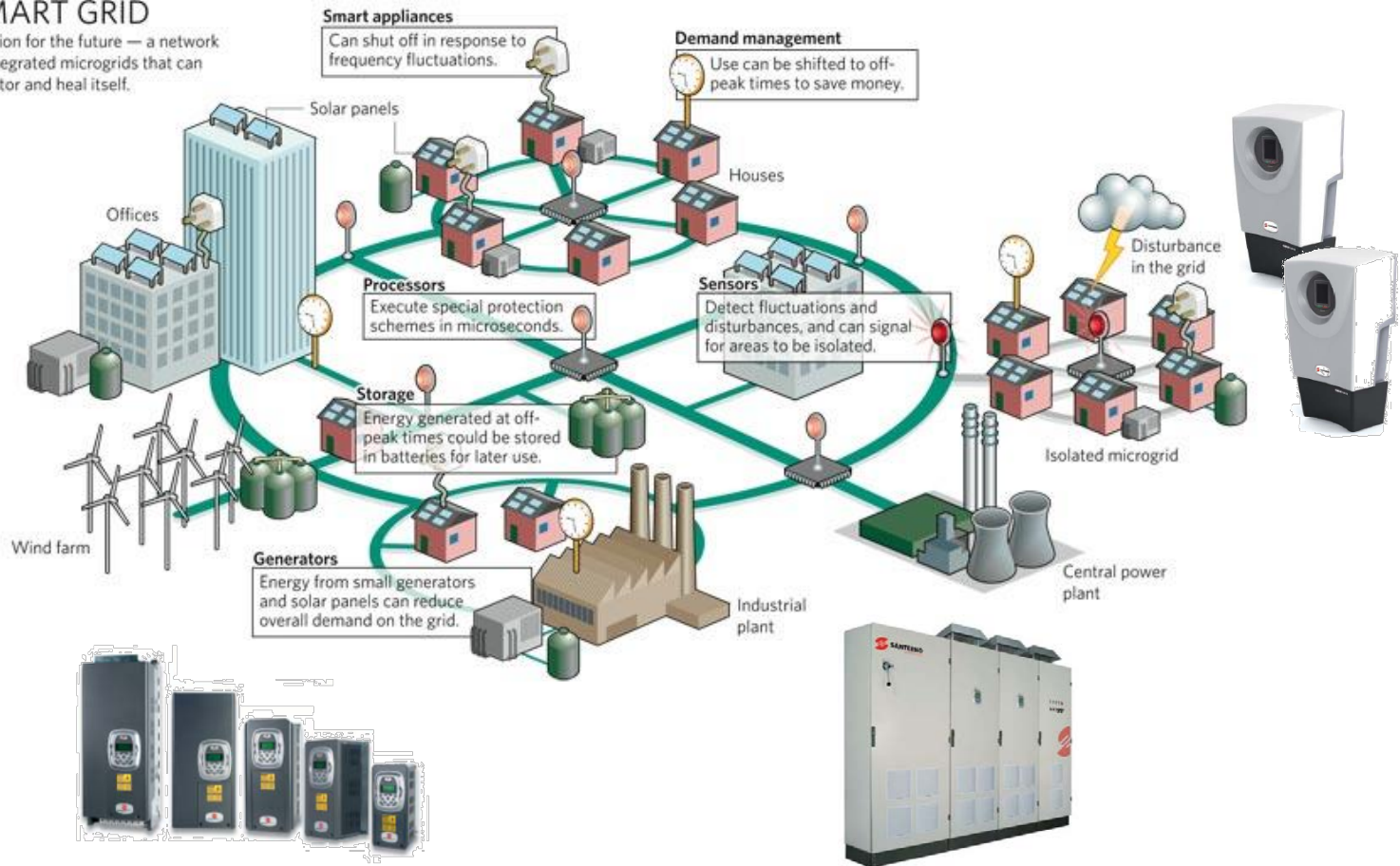
# Sunway M XS – Into the Future



## Smart Grid integration Ready-made for the new LV connection requirements

### SMART GRID

A vision for the future — a network of integrated microgrids that can monitor and heal itself.



# Sunway M XS



High performance  
Integrated Datalogger  
Easy and wide connectivity

Appealing design

